

CLAIMS

1. A lamp assembly for use with a lamp holder having a receptacle containing electrical contacts to receive and support the base part of a lamp, which lamp assembly comprises at least one lamp
5 having terminals projecting therefrom, and a circuit board having conductive pathways thereon, the lamp terminals being fixed to respective positions on the pathways so as to establish electrical contact therebetween and such that the lamp is physically supported by the circuit board, and wherein the board has an edge
10 region thereto for insertion into said lamp holder receptacle so as to be supported thereby, and said pathways include mutually spaced conductive portions at said edge region for conductive engagement with said contacts within said lamp holder receptacle wherein said pathways are provided on opposite sides of the board, and the
15 lamp terminals are fixed to said positions respectively on said opposite sides.
2. A lamp assembly according to claim 1 wherein the lamp is mounted symmetrically with regard to the mid plane of the board.
3. A lamp assembly according to claim 2 wherein the lamp has a
20 generally cylindrical body wherein the mid plane of the board contains the lamp body axis.
4. A lamp assembly according to claim 1 wherein there are multiple lamps.

5. A lamp assembly according to claim 4 wherein the lamps are disposed symmetrically with regard to each other relative to the central longitudinal axis of the circuit board.
- 5 6. A lamp assembly according to claim 4 wherein the lamps are independently operable.
7. A lamp assembly according to claim 6 wherein the lamps are connected to different combinations of pathways leading to different combinations of conductive portions.
- 10 8. A lamp assembly according to claim 7 wherein at least one lamp has at least one terminal connected to a conductive portion unique to that lamp, and a plurality of lamps has at least one terminal connected to a common conductive portion.
- 15 9. A lamp assembly according to claim 7 wherein there are two independently operable lamps connected to three conductive portions.
10. A lamp assembly according to claim 1 wherein the lamp is an LED and the lamp terminals are projecting wires.
11. A lamp assembly according to claim 1 wherein the lamp terminals are soldered to the pathway positions, and the circuit board is a printed circuit board.
- 20 12. A lamp assembly according to claim 1 wherein the circuit board includes circuitry to permit connection to the lamp holder with different polarizations.

13. A lamp assembly according to claim 12 wherein the circuitry comprises a diode bridge arrangement which accommodates either of two opposite polarities.
- 5 14. A lamp assembly according to claim 1 wherein the circuit board is of a generally rectangular shape with the lamp projecting at one end and the conductive portions at the opposite end region.
15. A lamp assembly according to claim 1 wherein the circuit board is generally symmetrical about a horizontal axis.
- 10 16. A lamp assembly according to claim 1 wherein the conductive portions are applied to both opposite faces of the board with connections therebetween through the board.
17. A lamp assembly according to claim 1 used in a press button of an entertainment machine.
- 15 18. A lamp assembly for use with a lamp holder having a receptacle containing electrical contacts to receive and support the base part of a lamp, which lamp assembly comprises at least one lamp having terminals projecting therefrom, and a circuit board having conductive pathways thereon, the lamp terminals being fixed to
20 respective positions on the pathways so as to establish electrical contact therebetween and such that the lamp is physically supported by the circuit board, and wherein the board has an edge region thereto for insertion into said lamp holder receptacle so as to be supported thereby, and said pathways include mutually spaced

conductive portions at said edge region for conductive engagement with said contacts within said lamp holder receptacle, said assembly having a plurality of said lamps arranged for operation independently of each other, wherein the lamps are connected to different combinations of said pathways leading to different combinations of said conductive portions.

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19. A lamp assembly according to claim 18 wherein at least one lamp has at least one terminal connected to a conductive portion unique to that lamp, and a plurality of lamps has at least one terminal connected to a common conductive portion.

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20. A lamp assembly according to claim 18 wherein there are two independently operable lamps connected to three conductive portions.

21. A lamp assembly according to claim 18 wherein the lamp is an LED and the lamp terminals are projecting wires.

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22. A lamp assembly according to claim 18 wherein the lamp terminals are soldered to the pathway positions, and the circuit board is a printed circuit board.

23. A lamp assembly according to claim 18 wherein the circuit board includes circuitry to permit connection to the lamp holder with different polarizations.

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24. A lamp assembly according to claim 23 wherein the circuitry comprises a diode bridge arrangement which accommodates either

of two opposite polarities.

25. A lamp assembly according to claim 18 wherein the circuit board is of a generally rectangular shape with the lamp projecting at one end and the conductive portions at the opposite end region.
- 5 26. A lamp assembly according to claim 18 wherein the circuit board is generally symmetrical about a horizontal axis.
27. A lamp assembly according to claim 18 wherein the conductive portions are applied to both opposite faces of the board with connections therebetween through the board.
- 10 28. A lamp assembly according to claim 18 used in a press button of an entertainment machine.